

**AMENDMENTS TO THE CLAIMS**

The listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims**

1. (Currently Amended) A photovoltaic device comprising:

a photovoltaic element including a transparent conductive oxide film having arithmetic mean deviation of the profile of not more than about 2 nm and a paste electrode, formed on said transparent conductive oxide film, containing at least a metal material and a resin material, said resin material containing at least about 60 percent by weight and not more than about 100 percent by weight of epoxy resin, and having an electric wire connected to the paste electrode.

2. (Original) The photovoltaic device according to claim 1, wherein

said photovoltaic element includes a first conductivity type crystalline semiconductor layer and a substantially intrinsic non-single-crystalline semiconductor layer formed on said crystalline semiconductor layer, and

said transparent conductive oxide film is formed on said non-single-crystalline semiconductor layer.

3. (Original) The photovoltaic device according to claim 2, wherein

said photovoltaic element includes a second conductivity type non-single-crystalline semiconductor layer formed on said substantially intrinsic non-single-crystalline semiconductor layer, and

said transparent conductive oxide film is formed on said second conductivity type non-single-crystalline semiconductor layer.

4. (Original) The photovoltaic device according to claim 2, wherein

said substantially intrinsic non-single-crystalline semiconductor layer includes a substantially intrinsic first non-single-crystalline semiconductor layer formed on the upper surface of said first conductivity type crystalline semiconductor layer and a substantially intrinsic second non-single-crystalline semiconductor layer formed on the lower surface of said first conductivity type crystalline semiconductor layer,

said photovoltaic element includes a second conductivity type third non-single-crystalline semiconductor layer formed on the upper surface of said first non-single-crystalline semiconductor layer and a first conductivity type fourth non-single-crystalline semiconductor layer formed on the lower surface of said second non-single-crystalline semiconductor layer, and

said transparent conductive oxide film includes a first transparent conductive oxide film formed on the upper surface of said third non-single-crystalline semiconductor layer and a second transparent conductive oxide film formed on the lower surface of said fourth non-single-crystalline semiconductor layer.

5. (Original) The photovoltaic device according to claim 1, wherein

said resin material constituting said paste electrode contains at least about 75 percent by weight and not more than about 100 percent by weight of said epoxy resin.

6. (Original) The photovoltaic device according to claim 1, wherein

said transparent conductive oxide film has arithmetic mean deviation of the profile of at least about 0.5 nm and not more than about 1 nm.

7. (Original) The photovoltaic device according to claim 1, wherein said transparent conductive oxide film contains SnO<sub>2</sub>- added In<sub>2</sub>O<sub>3</sub>.

8. (Original) The photovoltaic device according to claim 7, wherein the content of Sn in said transparent conductive oxide film is not more than about 5 percent by weight.

9. (Original) The photovoltaic device according to claim 1, wherein said resin material constituting said paste electrode contains urethane resin in addition to said epoxy resin.

10. (Original) The photovoltaic device according to claim 1, wherein said metal material constituting said paste electrode is Ag.

11. (Currently Amended) The photovoltaic device according to claim 1, wherein [[the]] a contact angle of water with respect to [[the]] a surface of said transparent conductive oxide film is at least about 40° and not more than about 74°.

12. (Currently Amended) The photovoltaic device according to claim 1, wherein a plurality of said photovoltaic elements are provided at a prescribed interval, and

said paste electrode includes a first paste electrode formed on the upper surface of each said photovoltaic element and a second paste electrode formed on the lower surface of each said photovoltaic element,

~~said photovoltaic device further comprising an electric wire having~~ wherein the electric wire has a first end connected to said first paste electrode formed on the upper surface of prescribed said photovoltaic element and a second end connected to said second paste electrode formed on the lower surface of another said photovoltaic element adjacent to said prescribed photovoltaic element.

13. (Currently Amended) A photovoltaic device comprising:

a photovoltaic element including a transparent conductive oxide film provided with a surface having a contact angle of at least about 40° and not more than about 74° with respect to water and a paste electrode, formed on said transparent conductive oxide film, containing at least a metal material and a resin material, said resin material containing at least about 60 percent by weight and not more than about 100 percent by weight of epoxy resin, and having an electric wire connected to said paste electrode.

14. (Original) The photovoltaic device according to claim 13, wherein

said photovoltaic element includes a first conductivity type crystalline semiconductor layer and a substantially intrinsic non-single-crystalline semiconductor layer formed on said crystalline semiconductor layer, and

said transparent conductive oxide film is formed on said non-single-crystalline semiconductor layer.

15. (Original) The photovoltaic device according to claim 14, wherein  
said photovoltaic element includes a second conductivity type non-single-crystalline semiconductor layer formed on said substantially intrinsic non-single-crystalline semiconductor layer, and  
said transparent conductive oxide film is formed on said second conductivity type non-single-crystalline semiconductor layer.

16. (Original) The photovoltaic device according to claim 14, wherein  
said substantially intrinsic non-single-crystalline semiconductor layer includes a substantially intrinsic first non-single-crystalline semiconductor layer formed on the upper surface of said first conductivity type crystalline semiconductor layer and a substantially intrinsic second non-single-crystalline semiconductor layer formed on the lower surface of said first conductivity type crystalline semiconductor layer,  
said photovoltaic element includes a second conductivity type third non-single-crystalline semiconductor layer formed on the upper surface of said first non-single-crystalline semiconductor layer and a first conductivity type fourth non-single-crystalline semiconductor layer formed on the lower surface of said second non-single-crystalline semiconductor layer, and  
said transparent conductive oxide film includes a first transparent conductive oxide film formed on the upper surface of said third non-single-crystalline semiconductor layer and a second transparent conductive oxide film formed on the lower surface of said fourth non-single-crystalline semiconductor layer.

17. (Original) The photovoltaic device according to claim 13, wherein  
said resin material constituting said paste electrode contains at least about 75 percent by  
weight and not more than about 100 percent by weight of said epoxy resin.

18. (Original) The photovoltaic device according to claim 13, wherein  
said transparent conductive oxide film contains SnO<sub>2</sub>- added In<sub>2</sub>O<sub>3</sub>.

19. (Original) The photovoltaic device according to claim 18, wherein  
the content of Sn in said transparent conductive oxide film is not more than about 5  
percent by weight.

20. (Original) The photovoltaic device according to claim 13, wherein  
said resin material constituting said paste electrode contains urethane resin in addition to  
said epoxy resin.

21. (Original) The photovoltaic device according to claim 13, wherein  
said metal material constituting said paste electrode is Ag.

22. (Currently Amended) The photovoltaic device according to claim 13, wherein  
a plurality of said photovoltaic elements are provided at a prescribed interval, and  
said paste electrode includes a first paste electrode formed on the upper surface of each  
said photovoltaic element and a second paste electrode formed on the lower surface of each said  
photovoltaic element,

~~said photovoltaic device further comprising an electric wire having~~ wherein the electric wire has a first end connected to said first paste electrode formed on the upper surface of prescribed said photovoltaic element and a second end connected to said second paste electrode formed on the lower surface of another said photovoltaic element adjacent to said prescribed photovoltaic element.